IN THE CLAIMS

This listing of claims replaces all prior listings:

1 - 35 (Canceled)

- 36. (Previously Presented) A method of producing a positive electrode active material for a non-aqueous electrolyte cell, comprising the sequential steps of:
 - (1) mixing ingredients of a lithium composite manganese oxide;
- (2) molding the mixture of said ingredients of a lithium composite manganese oxideunder pressure; and
- (3) sintering the molded mixture at a temperature not lower than 600°C and not higher than 850°C.

wherein

the lithium composite manganese oxide has a spinel structure and is expressed by a general formula $\text{Li}_x \text{Mn}_{2-y} \text{M}_y \text{O}_4$ wherein $0.90 \le x \le 1.4$; $0 \le y \le 0.30$; and M is one or more materials selected from the group consisting of Ti, V, Cr, Fe, Co, Ni, and Al.

- 37. (Previously Presented) The method of producing a positive electrode active material according to claim 36, further comprising pulverizing the sintered mixture.
- 38. (Previously Presented) The method of producing a positive electrode active material according to claim 36, wherein said lithium composite manganese oxide is in the form of an aggregate having a primary particle diameter of not less than 0.05 pm and not greater than 10 pm, and having a specific surface area measured by the BET method of not less than 0.2 m2/g and not greater than 2 m2/g.
- 39. (Previously Presented) The method of producing a positive electrode active material according to claim 36, wherein said non-aqueous electrolyte cell comprises a positive electrode

having a collector and a positive electrode material thereon, the positive electrode material comprising said lithium composite manganese oxide.

- 40. (Previously Presented) A method of producing a positive electrode for a non-aqueous electrolyte cell, comprising the sequential steps of:
 - (1) mixing ingredients of a lithium composite manganese oxide;
- (2) molding the mixture of said ingredients of said lithium composite manganese oxide under pressure;
- (3) sintering the molded mixture at a temperature not lower than 600°C and not higher than 850°C;
- (4) mixing the sintered mixture and at least a binder to obtain a positive electrode composite agent; and
- (5) applying said positive electrode composite agent on a positive electrode collector wherein said lithium composite manganese oxide has a spinel structure and is expressed by a general formula $\text{Li}_x \text{Mn}_{2-y} \text{M}_y \text{O}_4$, wherein $0.90 \le x \le 1.4$; $0 \le y \le 0.30$; and M is one or more materials selected from the group consisting of Ti, V, Cr, Fe, Co, Ni, and Al.
- 41. (Previously Presented) The method of producing a positive electrode according to claim 40, further comprising mixing a conductive agent in addition to the binder with the sintered mixture to obtain said positive electrode composite agent.
- 42. (Previously Presented) The method of producing a positive electrode according to claim 40, wherein said positive electrode composite agent is applied in the form of a slurry on said positive electrode collector and dried to obtain a positive electrode.
- 43. (Withdrawn) A positive electrode active material for a non-aqueous electrolyte cell comprising:

a lithium composite manganese oxide having a spinel structure and expressed by a general formula Li_xMn_{2-y}M_yO₄, wherein 0.90 5 x 1 1.4; 0 5 y 5 0.30; and M is one or more materials selected from the group consisting of Ti, V, Cr, Fe, Co, Ni, and Al;

said lithium composite manganese oxide is produced by a method comprising the sequential steps of:

- (I) mixing ingredients of a lithium composite manganese oxide;
- (2) molding the mixture of said ingredients of a lithium composite manganese oxide under pressure; and
- (3) sintering the molded mixture at a temperature not lower than 600° C and not higher than 850° C.
- 44. (Withdrawn) The positive electrode active material for a non-aqueous electrolyte cell according to claim 43, wherein

said lithium composite manganese oxide is in the form of an aggregate having a primary particle diameter of not less than 0.05 pm and not greater than 10 pm, and having a specific surface area measured by the BET method of not less than 0.2 m2/g and not greater than 2 m2/g. 45. (Withdrawn) A positive electrode active material for a non-aqueous electrolyte cell comprising

a lithium composite manganese oxide having a spinel structure and expressed by a general formula $Li_xMn_{2-y}M_yO_4$, wherein 0.90 5 x 1 1.4; 0 5 y 5 0.30; and M is one or more materials selected from the group consisting of Ti, V, Cr, Fe, Co, Ni, and Al;

said lithium composite manganese oxide is in the form of an aggregate having a primary particle diameter of not less than 0.05 pm and not greater than 10 pm, and having a specific surface area measured by the BET method of not less than 0.2 m2/g and not greater than 2 m2/g.

46. (Withdrawn) A positive electrode for a non-aqueous electrolyte cell comprising a positive electrode collector and a positive electrode active material thereon, wherein:

said positive electrode active material for a non-aqueous electrolyte cell comprises a lithium composite manganese oxide having a spinel structure and expressed by a general formula $\text{Li}_x \text{Mn}_{2\cdot y} \text{M}_y \text{O}_4, \text{ wherein } 0.90 \leq x \leq 1.4; 0 \leq y \leq 0.30; \text{ and M is one or more materials selected from the group consisting of Ti, V, Cr, Fe, Co, Ni, and Al; }$

said lithium composite manganese oxide is produced by a method comprising the sequential steps of:

- (1) mixing ingredients of a lithium composite manganese oxide;
- (2) molding the mixture of said ingredients of a lithium composite manganese oxide under pressure; and
- (3) sintering the molded mixture at a temperature not lower than 600° C and not higher than 850° C.
- 47. (Withdrawn) The positive electrode for a non-aqueous electrolyte cell according to claim 46, wherein said lithium composite manganese oxide is in the form of an aggregate having a primary particle diameter of not less than 0.05 pm and not greater than 10 pm, and having a specific surface area measured by the BET method of not less than 0.2 m2/g and not greater than 2 m2/g.

 48. (Withdrawn) A positive electrode for a non-aqueous electrolyte cell comprising a positive electrode collector and a positive electrode active material applied on said positive electrode collector, wherein:

said positive electrode active material for a non-aqueous electrolyte cell comprises a lithium composite manganese oxide having a spinel structure and expressed by a general

formula LixMn2.,M,04, wherein 0.90 Ix < 1.4; 0 Iy I 0.30; and M is one or more

materials selected from the group consisting of Ti, V, Cr, Fe, Co, Ni, and Al; and

said lithium composite manganese oxide is in the form of an aggregate having a primary

particle diameter of not less than 0.05 pm and not greater than 10 pm, and having a

specific

surface area measured by the BET method of not less than $0.2\ m21g$ and not greater than

2 m/1g.

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